

**Log of Test Pit 12-6-TP-502**

Ground Surface Elevation Approximately 225.1 Feet

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 8	(Medium dense), moist, dark brown, silty, sandy GRAVEL with debris (FILL) (see note below).
S-2	3 to 6	5		
S-3	8 to 10	5	8 to 10	(Medium dense), moist, medium brown, sandy GRAVEL (NATIVE).

Bottom of 12-6-TP-502 at 10 feet, completed 4/17/92.

**Note:**

Debris observed from depth of 3 to 8 feet: 1-inch-diameter plastic apparently empty white tubing, 1 car radio, assorted plastic debris, scattered bottles, jars and cans, and ceramics.

**Log of Test Pit 12-7-TP-501**

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1.2	(Medium dense), moist, dark brown, silty, sandy GRAVEL.
S-2	3 to 6	5	1.2 to 10	(Loose), moist, brown, slightly sandy GRAVEL with gravel layers.
S-3	8 to 10	5		

Bottom of 12-7-TP-501 at 10 feet, completed 4/17/92.

# Log of Test Pit 12-TP-501

Ground Surface Elevation Approximately 213.4 Feet

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 5.5	(Medium dense), moist to wet, black, slightly silty, very sandy GRAVEL with debris (FILL) (see Note 1 below). Zones of saturation (standing water) within fill below depth of 4.5 feet. Hydrogen sulfide odor associated with saturated zones.
S-2	3 to 4.5	4		
			5.5 to 9	(Dense), moist, dark brown, gravelly silty SAND (appears NATIVE). Soils more consolidated between 6 and 7 feet.
S-3	9 to 10	5	9 to 10	

Bottom of 12-TP-501 at 10 feet, completed 4/16/92.

## Note:

Debris observed from depth of 0.5 to 6 feet: timbers, logs, plywood, and rolls of red paper (approximately 2 inches wide); pieces of styrofoam, cardboard, and plastic banding; scraps of cotton-like cloth with yellow powder-like substance (pH of 0 on pH paper).

**Log of Test Pit 12-TP-502**

Ground Surface Elevation Approximately 217.6 Feet

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	4.5	0 to 2	(Medium dense), moist, black, slightly silty, very sandy GRAVEL with roots from 0 to 1 foot.
S-2	3 to 6	4	2 to 10	(Medium dense), moist, tan-brown, sandy GRAVEL with interbedded layers of gray, sandy gravel.
S-3	8 to 10	4		

Bottom of 12-TP-502 at 10 feet, completed 4/16/92.

**Log of Test Pit 12-TP-503**

Ground Surface Elevation Approximately 217.7 Feet

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 2	(Medium dense), moist, black, slightly silty, very sandy GRAVEL.
S-2	3 to 6	4.5	2 to 4	(Medium dense), moist, tan-brown, sandy GRAVEL.
S-3	4 to 10	4.5	4 to 10	(Medium dense), moist, medium gray, sandy GRAVEL with interbedded gravel layers.

Bottom of 12-TP-503 at 10 feet, completed 4/16/92.

**Log of Test Pit 12-TP-504**

Ground Surface Elevation Approximately 225.3 Feet

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1.3	(Medium dense), moist, dark brown, silty, sandy GRAVEL.
S-2	3 to 6	5	1.3 to 7	(Loose), moist, brown GRAVEL.
S-3	8 to 10	5	7 to 10	(Medium dense), moist, light brown, sandy GRAVEL.

Bottom of 12-TP-504 at 10 feet, completed 4/17/92.

**Log of Test Pit 12-TP-505**

Ground Surface Elevation Approximately 222.1 Feet

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 6	(Medium dense), moist, dark brown, silty, sandy GRAVEL with abundant debris (FILL) (see note below).
S-2	3 to 6	5		
S-3	8 to 10	5	6 to 10	(Dense), moist, brown, sandy GRAVEL (NATIVE).

Bottom of 12-TP-505 at 10 feet, completed 4/17/92.

**Note:**

Debris observed from depth of 1.5 to 6 feet: abundant water gel bags, minor amounts of plastic banding, metal banding (strapping), 1-inch-diameter plastic pipe, plastic drum liners, and cardboard. Did not observe any residual water gel.

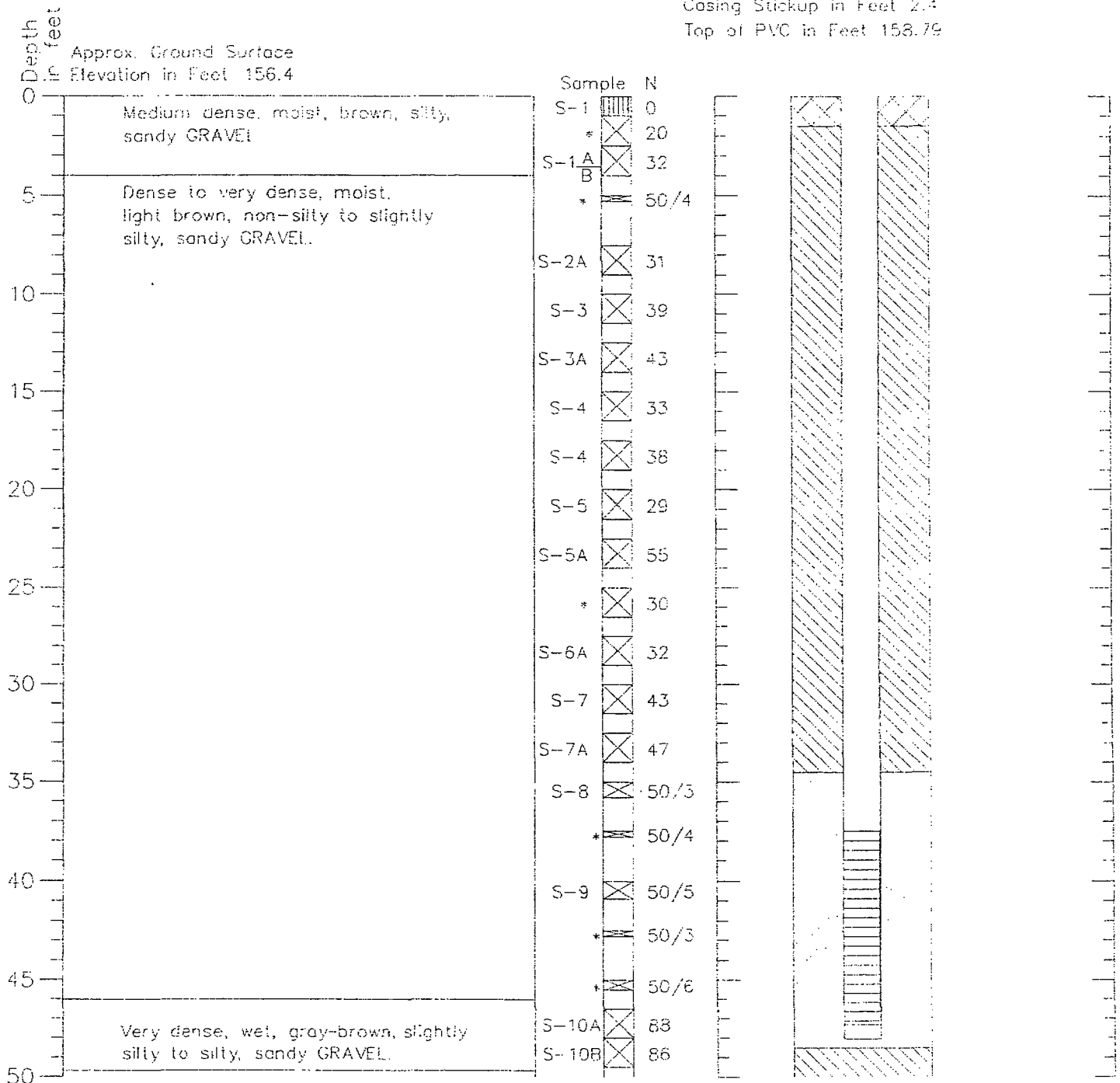
**AREA 16**  
**EXPLORATION LOGS**

# Boring Log and Construction Data for Monitoring Well 16-B-501

## Geologic Log

## Monitoring Well Design

Casing Stickup in Feet 2.4  
Top of PVC in Feet 158.79



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

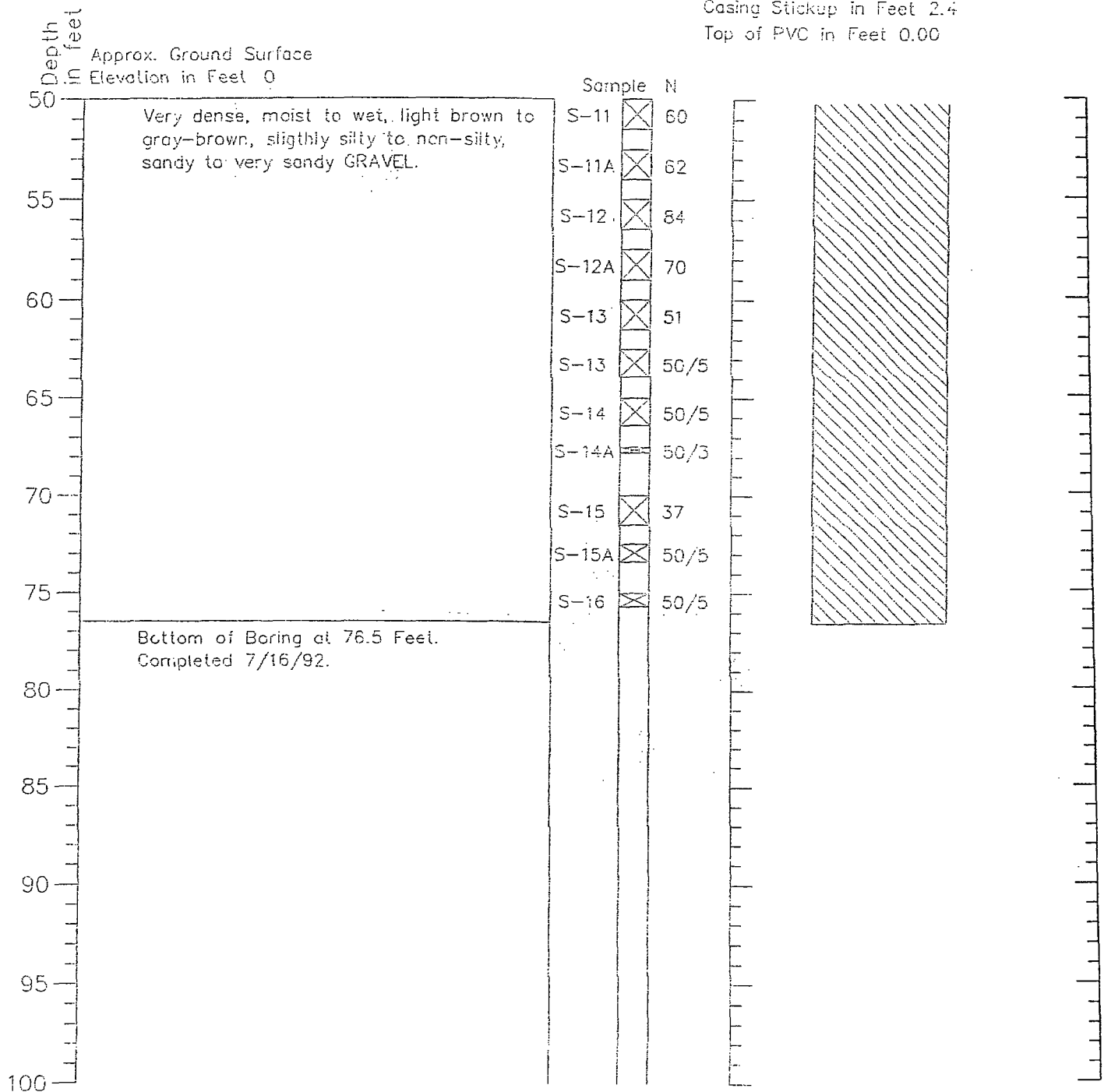
Figure A-16-1

# Boring Log and Construction Data for Monitoring Well 16-B-501

## Geologic Log

## Monitoring Well Design

Casing Stickup in Feet 2.4  
Top of PVC in Feet 0.00



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

# Boring Log 16-B-502

## Soil Descriptions

Ground Surface Elevation in Feet 144.8

(Loose), moist, light brown, gravelly, fine to medium SAND.	0
Medium dense, wet, brown, very gravelly, medium to coarse SAND.	5
Dense, wet, brown, sandy GRAVEL.	10
Bottom of Boring at 11.5 Feet. Completed 2/24/92	11.5

Depth in Feet

0

5

10

15

20

25

30

35

40

45

50

55

60

## STANDARD PENETRATION RESISTANCE

Blows per Foot

Sample

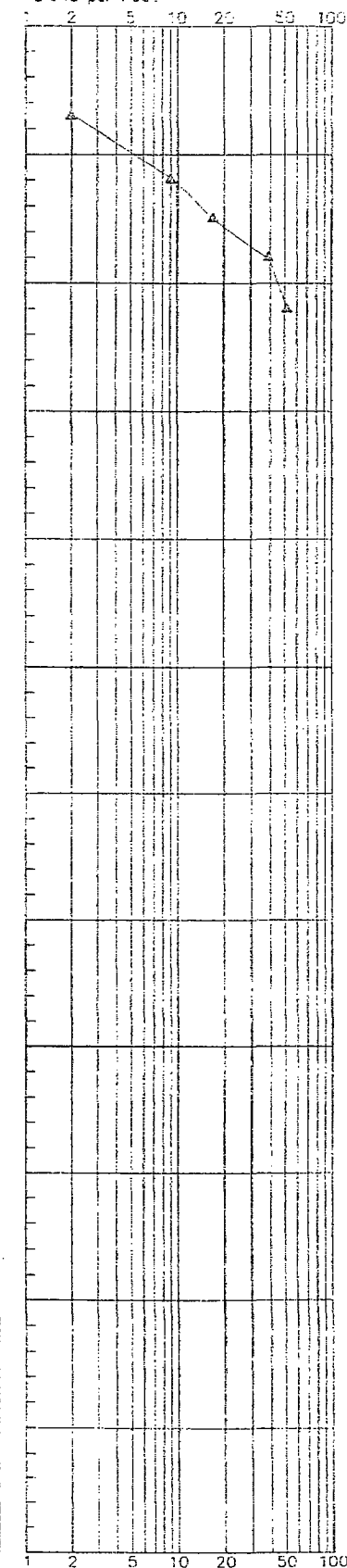
S-1(R)

\*S-1A

S-2

S-2A

\*S-3



CH

NM

S

NM

NM

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (AID) or for date specified. Level may vary with time.



NO. 100 10-5-603

# Soil Descriptions

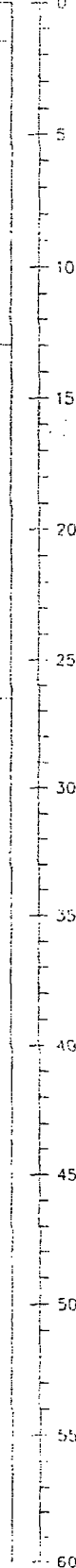
Ground Surface Elevation in Feet 143.0

Flowey, moist, light brown, gravelly, fine to medium SAND.  
Medium dense, moist, brown and black, sandy GRAVEL.

Very dense, moist to wet, brown and reddish-brown, slightly silty to non-silty, slightly sandy GRAVEL.

Bottom of Boring at 26.5 Feet.  
Completed 2/24/92

Depth  
in Feet

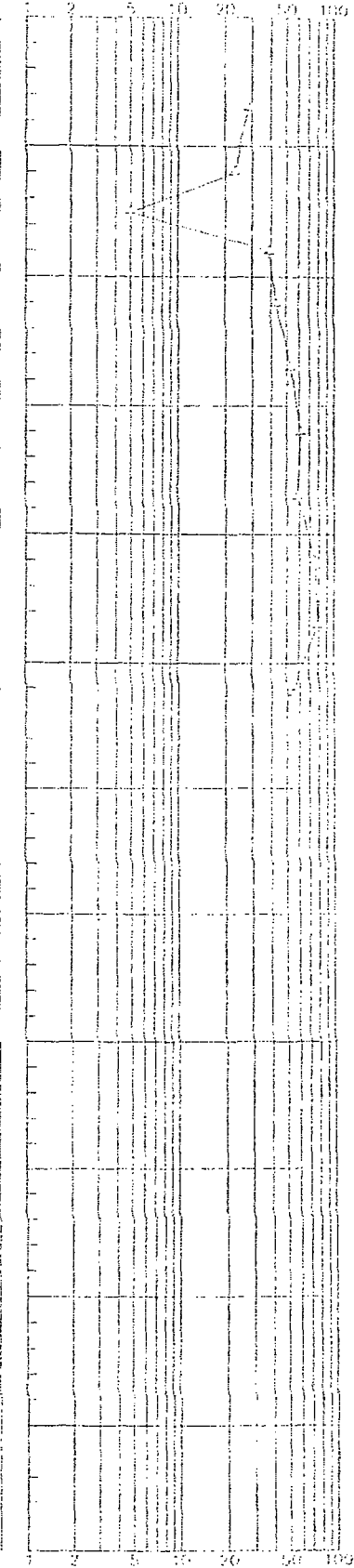


## STANDARD PENETRATION RESISTANCE

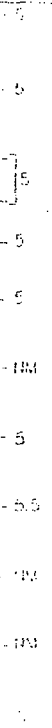
Sample

S-1(A)  
S-1A  
S-2  
S-2A  
S-3  
S-4  
S-5  
S-6  
S-7  
S-8  
S-9

Blows per Foot



pH

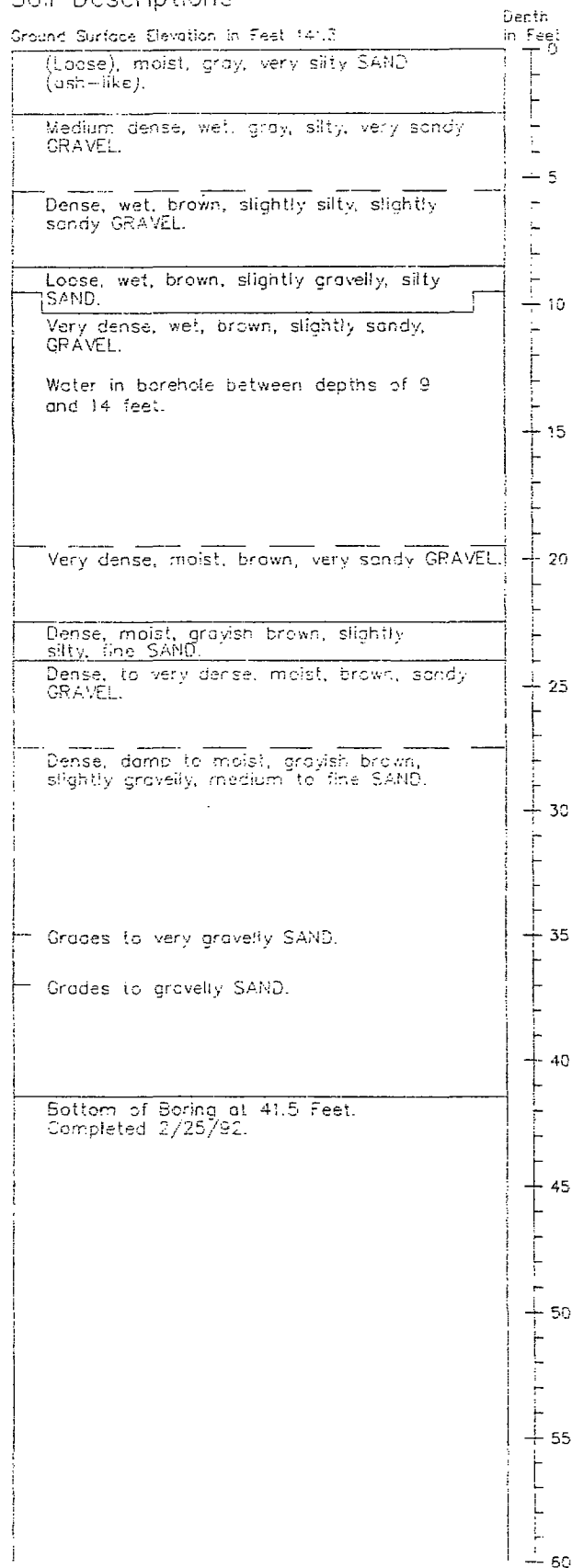


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (AIG) or for date specified. Level may vary with time.

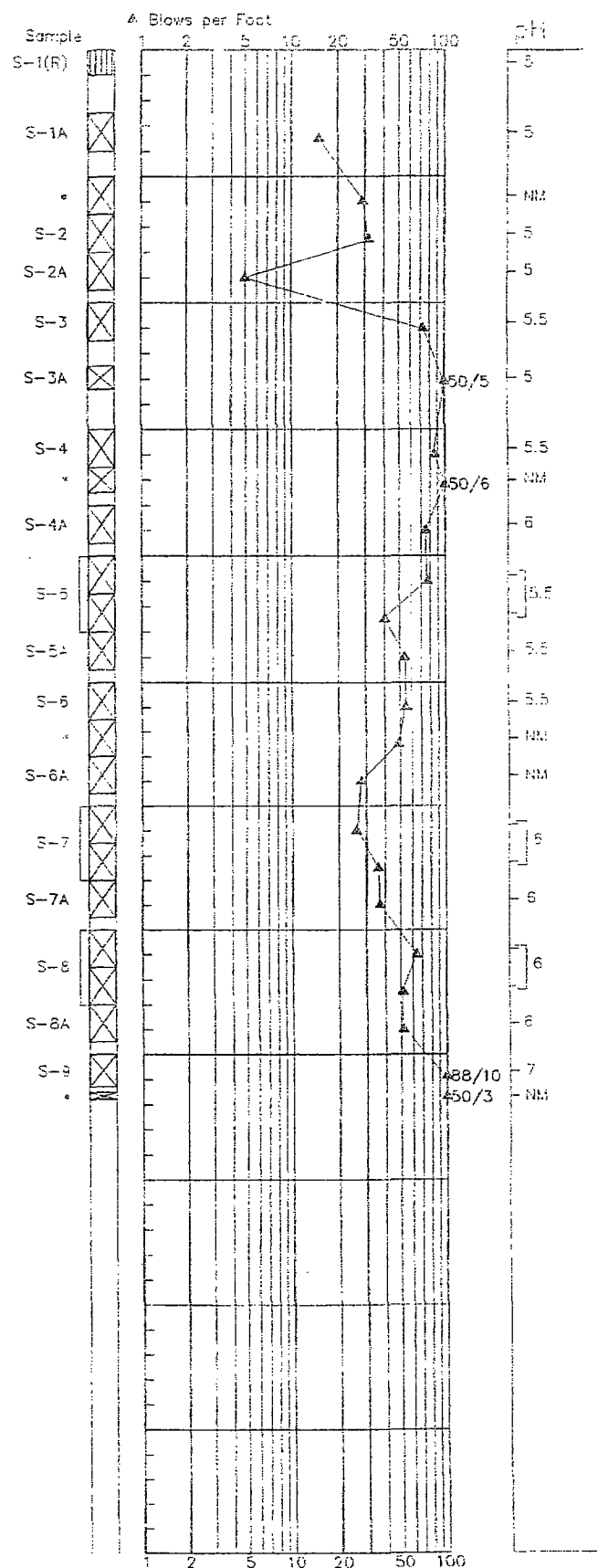
# Boring Log 16-B-504

## Soil Descriptions

Ground Surface Elevation in Feet 141.3



## STANDARD PENETRATION RESISTANCE



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

# Boring Log 16-B-505

## Soil Descriptions

Ground Surface Elevation in Feet 142.6

Loose, moist, light brown, slightly silty SAND.  
Medium stiff, moist, light brown, gravelly, sandy SILT.  
Medium dense, moist, light brown, silty sandy GRAVEL and gravelly, very silty SAND.

Very dense, moist, light to gray-brown, slightly silty to silty, sandy GRAVEL.

Bottom of Boring at 28.5 Feet  
Completed 7/14/92

Depth  
in Feet

0  
5  
10  
15  
20  
25  
30  
35  
40  
45  
50  
55  
60

## STANDARD PENETRATION RESISTANCE

## LAB TESTS

Blows per Foot

Sample 1 2 5 10 20 50 100

S-1  
S-2  
S-1C  
S-2  
S-2S  
S-3  
S-3A  
S-4S  
S-5  
S-5A  
S-6

50/5  
50/5  
50/5  
50/3

Water Content in Percent

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (A16) or for date specified. Level may vary with time.

**Log of Test Pit 16-TP-501**

Ground Surface Elevation Approximately 145.8 Feet

Sample Number	Sample Depth in Feet	pH/PID	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5/0	0 to 2.5	Four inches of moist, black, silty, gravelly SAND with abundant roots over (medium dense), moist, tan and brown, very sandy GRAVEL.
S-2	3 to 6.5	5/0	2.5 to 6	(Medium dense), moist, grayish brown, very sandy to sandy GRAVEL.
			6 to 8	(Medium stiff), moist, gray and brown, sandy SILT.
S-3	8 to 10	5/0	8 to 10	(Medium dense), moist to wet, gray, sandy GRAVEL.

Bottom of 16-TP-501 at 10 feet, completed 3/10/92.

**Log of Test Pit 16-TP-502**

Ground Surface Elevation Approximately 143.8 Feet

Sample Number	Sample Depth in Feet	pH/PID	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5/0	0 to 3	Four inches of organic debris over (medium dense), sandy GRAVEL with abundant roots.
S-2	3 to 6	5/0	3 to 8	(Medium dense), moist, brownish gray, sandy GRAVEL with layer of brick-red soil between depths of 7 and 8 feet.
S-3	7.5 to 10	4/0	8 to 10	(Medium dense), moist, brownish gray, very gravelly, medium SAND with zone of brick-red soil between depths of 8.5 and 9.5 feet.

Bottom of 16-TP-502 at 10 feet, completed 3/10/92.

Log of Test Pit 16-TP-503

Ground Surface Elevation Approximately 144.7 Feet

Sample Number	Sample Depth in Feet	pH/PID	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5/0	0 to 0.5	Two inches of hard, residual Bunker C over 2 inches of black, silty SAND with roots over (medium dense), moist, brown, sandy GRAVEL with 1-inch-thick lens of black, very silty SAND at a depth of 0.5 foot.
S-2	3 to 6	5/0	0.5 to 3.5	(Medium dense), moist, brown, sandy GRAVEL.
S-3	8 to 10	5/0	3.5 to 10	(Medium dense), moist, gray, sandy GRAVEL.

Bottom of 16-TP-503 at 10 feet, completed 3/10/92.

Log of Test Pit 16-TP-504

Ground Surface Elevation Approximately 145.5 Feet

Sample Number	Sample Depth in Feet	pH/PID	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	4/0	0 to 2.5	Four inches of black, silty SAND with abundant roots over (medium dense), moist, brown, slightly gravelly, silty SAND.
S-2	3 to 6	4/0	2.5 to 7	(Medium dense), moist, gray, very silty, fine to medium SAND with 6-inch-thick non-silty sand lens at a depth of 3.5 feet.
S-3	8 to 10	4.5/0	7 to 10	(Medium dense), moist, brownish gray, sandy GRAVEL.

Bottom of 16-TP-504 at 10 feet, completed 3/10/92.

**Log of Test Pit 16-TP-505**

Ground Surface Elevation Approximately 142.6 Feet

Sample Number	Sample Depth in Feet	pH/PID	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1.5	3.5/0	0 to 1.25	Four inches of grass over (soft), moist, brown and red, non-sandy to slightly sandy SILT with abundant organic matter.
			1.25 to 2.5	(Loose), moist, gray, slightly gravelly, silty SAND.
S-2	3 to 6	4.5/0	2.5 to 4	(Soft), moist, grayish orange, sandy SILT with minor wood fragments.
S-3	8 to 10	4.5/0	4 to 10	(Medium dense), moist, grayish orange, silty to slightly silty, sandy GRAVEL.

Bottom of 16-TP-505 at 10 feet, completed 3/11/92.

**Log of Test Pit 16-TP-506**

Ground Surface Elevation Approximately 147.8 Feet

Sample Number	Stratum Depth in Feet	Soil Description
No Samples Collected	0 to 0.5	Three inches of grass over (soft), moist, dark brown, slightly sandy SILT with abundant organics and drum fragments.

Bottom of 16-TP-506 at 0.5 feet, completed 3/11/92.

Note: 16-TP-506 abandoned due to presence of drum fragments in upper ½ foot. Replaced with 16-TP-509.

**Log of Test Pit 16-TP-507**

Ground Surface Elevation Approximately 141.0 Feet

Sample Number	Sample Depth in Feet	pH/PID	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	4/0	0 to 1	(Soft), moist, red, laminated SILT.
S-2	3 to 6	4/0	1 to 4	(Loose), moist, light grayish orange, silty, fine to medium SAND with wood fragments.
S-3	8 to 10	4/0	4 to 10	Medium dense, moist, brownish orange, slightly silty, sandy GRAVEL.

Bottom of 16-TP-507 at 10 feet, completed 3/11/92.

**Log of Test Pit 16-TP-508**

Ground Surface Elevation Approximately 147.1 Feet

Sample Number	Sample Depth in Feet	pH/PID	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5/0	0 to 1.5	(Medium dense), damp, gray and dark brown, slightly silty, sandy GRAVEL with interbedded 1- to 2-inch-thick dark brown silty lenses and abundant roots and other organic matter.
S-2	3 to 6	5/0	1.5 to 9	(Medium dense), damp, reddish brown to brownish orange, sandy GRAVEL.
S-3	8 to 10	5/0	9 to 10	(Medium dense), moist, light brownish orange, fine to medium SAND.

Bottom of 16-TP-508 at 10 feet, completed 3/11/92.

**Log of Test Pit 16-TP-509**

Ground Surface Elevation Approximately 145.1 Feet

Sample Number	Sample Depth in Feet	pH/PID	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5/0	0 to 2.75	Two inches of hard, residual Bunker C over (medium dense), damp, gray, slightly silty, sandy GRAVEL with abundant roots and wood fragments.
			2.75 to 4.5	(Loose), damp to moist, dark gray, silty SAND with minor organic matter.
S-2	3 to 6	5/0	4.5 to 5	(Medium dense), moist, light brownish orange, slightly silty, fine SAND.
S-3	8 to 10	5/0	5 to 10	(Medium dense), moist, light brownish orange, slightly silty, sandy GRAVEL.

Bottom of 16-TP-509 at 10 feet, completed 3/11/92.



**AREA 18**  
**EXPLORATION LOGS**

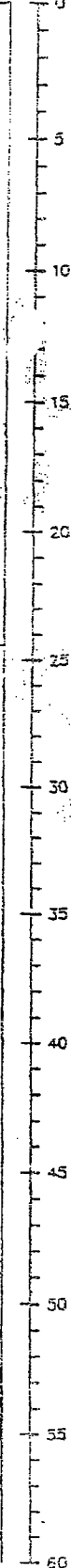
# Boring Log 18-B-502

## Soil Descriptions

Medium dense to very dense, moist, dark brown to light brown, slightly silty, sandy GRAVEL.

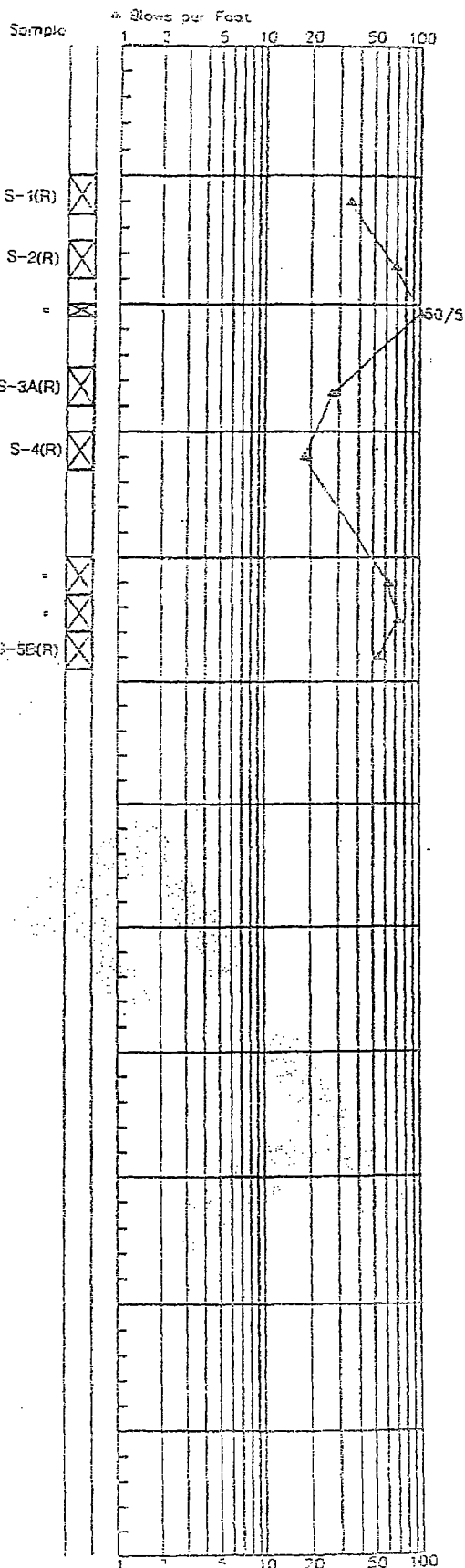
Bottom of Boring at 24.5 Feet.  
Completed 11/5/92

Depth  
in Feet



## STANDARD PENETRATION RESISTANCE

## LAB TESTS



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

# Boring Log 18-B-501

## Soil Descriptions

Medium dense, moist, light brown, silty to slightly silty GRAVEL.

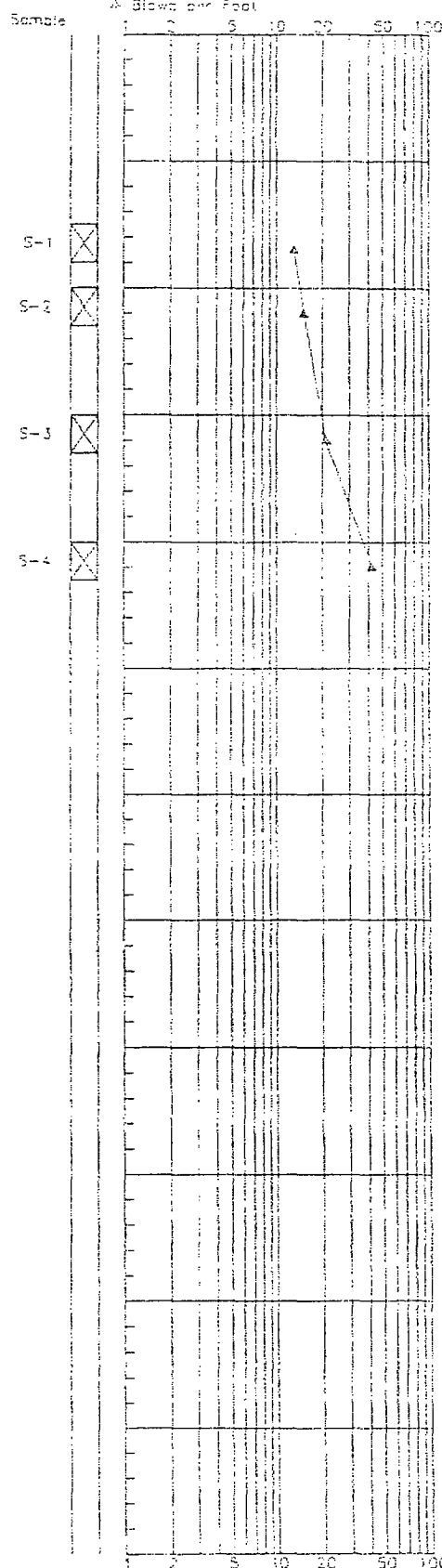
Bottom of Boring at 55 Feet.  
Completed 11/5/92

Depth  
in Feet

0  
5  
10  
15  
20  
25  
30  
35  
40  
45  
50  
55  
60

## STANDARD PENETRATION RESISTANCE

LAB  
TESTS



1. Refer to Figure A-1 for explanation of description and symbols.
2. Soil descriptions and stratum lines are interpreted and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

### Log of Test Pit 18-TP-501

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 2.5	(Loose), damp, brown, sandy GRAVEL with scattered concrete pieces.
S-1A	2.5 to 3	5	2.5 to 3	(Loose), moist, dark brown, gravelly SAND.
S-2	3 to 6	5	3 to 9	(Medium dense), moist, brown, sandy GRAVEL.
S-3	8 to 10	5	9 to 10	(Very dense), moist, brown, sandy GRAVEL.

Bottom of 18-TP-501 at 10 feet, completed 5/11/92.

### Log of Test Pit 18-TP-502

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 4	(Loose), moist, medium to dark brown, slightly gravelly, silty SAND.
S-2	4 to 6	4	4 to 6	(Loose), moist, light brown, very gravelly SAND.
S-3	8 to 10	4.5	6 to 10	(Loose), moist, medium gray, very gravelly SAND with gravel layers.

Bottom of 18-TP-502 at 10 feet, completed 5/1/92.

#### Note:

Sample S-1 is a 5-point composite of 0 to 1 foot within the foundation of Nitrator 1.

Log of Test Pit 18-TP-503

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	4.5	0 to 0.5	(Loose), moist, medium brown, slightly silty, sandy GRAVEL.
S-2	3 to 6	4.5	0.5 to 1	(Medium dense), moist, interbedded tan-brown and gray, sandy GRAVEL with a gray sand layer from depth of 3 to 3.5 feet and gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-503 at 10 feet, completed 5/1/92.

Note:

Sample S-1 is a 5-point composite from 0 to 1 foot within the foundation of Separator No. 1.

Log of Test Pit 18-TP-504

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 4	(Loose), damp, brown, sandy GRAVEL (FILL) with chunks of concrete.
S-2	3 to 6	5	4 to 10	(Medium dense), moist, brown, sandy GRAVEL (NATIVE).
S-3	8 to 10	5		

Bottom of 18-TP-504 at 10 feet, completed 5/1/92.

Note:

Sample S-1 is a 5-point composite from 0 to 1 foot in Neutralizing House No. 3 foundation.

### Log of Test Pit 18-TP-505

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1	(Loose), moist, dark brown, very gravelly SAND with concrete and scattered wood (FILL).
S-2	3 to 6	5	1 to 10	(Very dense), moist, brown, slightly sandy to sandy GRAVEL (NATIVE) with gravel layers dipping west.
S-3	8 to 10	5		

Bottom of 18-TP-505 at 10 feet, completed 5/11/92.

Note:

Sample S-1 is a 5-point composite in Neutralizer No. 2 foundation.

### Log of Test Pit 18-TP-506

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1.5	Four inches of forest duff over (loose), moist, dark brown, very gravelly SAND with minor organics.
			1.5 to 3	(Dense), moist, gray and brown, sandy GRAVEL.
S-2	3 to 6	5	3 to 5	(Dense), moist, brown, sandy GRAVEL with minor silt which decreases with depth.
S-3	8 to 10	5	5 to 10	(Very dense), moist, brown, sandy to slightly sandy GRAVEL.

Bottom of 18-TP-506 at 10 feet, completed 5/12/92.

Note:

Native soils encountered at depth of 2.5 to 3 feet.

Log of Test Pit 18-TP-507

Sample Number	Sample Depth in Feet	Stratum Depth in Feet	Soil Description
S-1	0 to 1	0 to 1.5	Three inches of forest duff over (loose), moist, dark brown, gravelly SAND with minor organics.
S-2	3 to 6	1.5 to 10	(Dense), moist, brown, gravelly SAND with interbedded gravel layers dipping to west.
S-3	8 to 10		

Bottom of 18-TP-507 at 10 feet, completed 5/12/92.

Log of Test Pit 18-TP-508

Sample Number	Sample Depth in Feet	Stratum Depth in Feet	Soil Description
S-1	0 to 1	0 to 1.5	(Loose), moist, dark brown, gravelly SAND (Disturbed soils).
		1.5 to 2	(Medium dense), moist, rusty brown, sandy GRAVEL (weathered zone, appears NATIVE).
S-2	3 to 6	2 to 10	(Dense), moist, brown, gravelly SAND with interbedded sandy gravel layers dipping to the west.
S-3	8 to 10		

Bottom of 18-TP-508 at 10 feet, completed 5/12/92.

Note:

Approximately 6 to 8 inches of soil removed during demolition and prior to excavation.

Log of Test Pit 18-TP-509

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1	(Loose), moist, dark brown, gravelly SAND with minor organics.
			1 to 1.5	(Medium dense), moist, rusty brown, sandy GRAVEL (NATIVE).
S-2	3 to 6	5	1.5 to 10	(Dense), moist, brown, gravelly SAND with interbedded sandy gravel layers dipping toward SW (NATIVE).
S-3	8 to 10	5		

Bottom of 18-TP-509 at 10 feet, completed 5/12/92.

Log of Test Pit 18-TP-510

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5	0 to 2	(Loose), moist, dark brown, very gravelly SAND with minor organics.
S-2	3 to 6	5	2 to 3.5	(Medium dense), moist, rusty brown, sandy GRAVEL.
S-3	8 to 10	5	3.5 to 10	(Medium dense), moist, brown, sandy GRAVEL with interbedded gravel layers.

Bottom of 18-TP-510 at 10 feet, completed 5/14/92.



Log of Test Pit 18-TP-511

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5	0 to 1.5	(Loose), moist, dark brown, gravelly SAND with minor organics.
S-2(R)	3 to 6	5	1.5 to 10	(Medium dense), moist, brown, sandy GRAVEL with interbedded gravel layers.
S-3(R)	8 to 10	5		

Bottom of 18-TP-511 at 10 feet, completed 5/14/92.

Log of Test Pit 18-TP-512

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1	(Loose), moist, dark brown, very gravelly SAND with minor roots.
S-2	3 to 6	5	1 to 10	(Medium dense), moist, brown, sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-512 at 10 feet, completed 5/14/92.

### Log of Test Pit 18-TP-513

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 2.5	(Loose), moist, dark brown, gravelly SAND with minor organics.
S-2	3 to 6	5	2.5 to 10	(Medium dense), moist, brown, sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-513 at 10 feet, completed 5/14/92.

### Log of Test Pit 18-TP-514

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 4	(Loose), moist, dark brown, gravelly SAND with small pieces of concrete, rebar, and steel debris (Disturbed soils).
S-2	4 to 6	5	4 to 10	(Dense), moist, brown, slightly sandy GRAVEL with bedding dipping southwest (NATIVE).
S-3	8 to 10	5		

Bottom of 18-TP-514 at 10 feet, completed 5/11/92.

#### Notes:

- 1) Sample S-1 is a 5-point composite from 0 to 1 foot in area of former Dynamite Mix House No. 2 structure.
- 2) Soil and debris from 0 to 4 feet appear to have been recently mixed from debris removal and sympathetic detonation.

Log of Test Pit 18-TP-515

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5	0 to 2	(Loose), moist, dark brown, very gravelly SAND with scattered organics.
			2 to 3	(Medium dense), moist, tan, sandy GRAVEL.
S-2	3 to 6	5	3 to 10	(Medium dense), moist, brown, sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-515 at 10 feet, completed 5/14/92.

Log of Test Pit 18-TP-516

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1.5	(Loose), moist, dark brown, gravelly SAND with minor organics.
			1.5 to 2.5	(Medium dense), moist, tan, sandy GRAVEL with occasional roots.
S-2	3 to 6	5	2.5 to 10	(Medium dense), moist, brown, sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-516 at 10 feet, completed 5/14/92.

Log of Test Pit 18-TP-517

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 0.8	5	0 to 3	(Loose), moist, brown, gravelly SAND with thin layer of black material at depth of 1 foot (Sample S-1A).
S-1A	0.8 to 1	NM		
S-2	3 to 6	5	3 to 10	(Medium dense), moist, brown, gravelly SAND with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-517 at 10 feet, completed 5/14/92.

Log of Test Pit 18-TP-518

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 2.5	(Loose), moist, dark brown, sandy GRAVEL with abundant roots.
S-2	3 to 6	5	2.5 to 10	(Medium dense), moist, brown, sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-518 at 10 feet, completed 5/14/92.

Log of Test Pit 18-TP-519

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 2.5	(Loose), moist, dark brown, gravelly SAND with minor organics and concrete debris.
S-2	3 to 6	5	2.5 to 10	(Dense), moist, brown, sandy GRAVEL with bedded gravel layers dipping southwest (NATIVE).
S-3	8 to 10	5		

Bottom of 18-TP-519 at 10 feet, completed 5/11/92.

Note:

Sample S-1 was a 4-point composite around debris (concrete, rebar) in center of Gelatin Mix House No. 3 foundation.

Log of Test Pit 18-TP-520

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1.5	(Loose), damp, brown, slightly gravelly, silty SAND with a small lens of black burnt wood from 1.3 to 1.5 feet, and bricks with pier block.
S-2	3 to 6	5	1.5 to 10	(Loose), damp, light brown, slightly sandy GRAVEL with gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-520 at 10 feet, completed 4/27/92.

### Log of Test Pit 18-TP-521

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5	0 to 10	(Loose), damp, brown, sandy GRAVEL with interbedded gravel layers.
S-2(R)	3 to 6	5		
S-3	8 to 10	5		

Bottom of 18-TP-521 at 10 feet, completed 5/12/92.

**Note:**

Sample S-1 is a 5-point composite from 0 to 1 foot in former Gelatin Mix House No. 1 foundation.

### Log of Test Pit 18-TP-522

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5	0 to 1	(Loose), damp, light brown, silty, gravelly SAND.
			1 to 2.5	(Loose), damp, dark brown, silty, gravelly SAND.
S-2(R)	3 to 6	5	2.5 to 10	(Loose), damp, brown, sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-522 at 10 feet, completed 5/13/92.

Log of Test Pit 18-TP-523

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5	0 to 8	(Medium dense), damp, medium and dark brown, silty, gravelly SAND with scattered pieces of burnt wood from 1 to 4 feet.
S-2	3 to 6	5		
S-3	8 to 10	5	8 to 10	(Medium dense), damp, light brown, sandy GRAVEL.

Bottom of 18-TP-523 at 10 feet, completed 5/13/92.

Log of Test Pit 18-TP-524

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1	(Loose), moist, dark brown, very gravelly SAND with roots.
S-2	3 to 6	5	1 to 10	(Medium dense), moist, brown, sandy GRAVEL with interbedded gravel layers (NATIVE).
S-3	8 to 10	5		

Bottom of 18-TP-524 at 10 feet, completed 5/12/92.

### Log of Test Pit 18-TP-525

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1(R)	0 to 1	5	0 to 2	(Loose), moist, dark brown, gravelly SAND with roots and other organics.
			2 to 3.5	(Medium dense), moist, reddish brown, sandy GRAVEL with roots.
S-2	3 to 6	5	3 to 10	(Medium dense), moist, brown, sandy GRAVEL with gravel layers (NATIVE).
S-3	8 to 10	5		

Bottom of 18-TP-525 at 10 feet, completed 5/12/92.

### Log of Test Pit 18-TP-526

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	4.5	0 to 3	(Loose), damp, dark brown, silty, sandy GRAVEL (see notes below).
S-2	3 to 6	4.5	3 to 10	(Medium dense), damp, light brown, sandy GRAVEL.
S-3	8 to 10	4.5		

Bottom of 18-TP-526 at 10 feet, completed 4/30/92.

#### Notes:

- 1) Sample S-1 is a five-point composite of soil from 0 to 1 foot in Gelatin Mix House No. 2 foundation. Soil had been disturbed by heavy equipment prior to sampling.
- 2) Observed a piece of wood from 0.5 to 1 foot in depth that appeared to be an old gutter or pipe.



Log of Test Pit 18-TP-527

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 2	(Loose), damp, dark brown, silty, gravelly SAND.
S-2	3 to 6	5	2 to 10	(Medium dense), damp, light brown, slightly sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-527 at 10 feet, completed 5/13/92.

Note:

Surface disturbed by heavy equipment prior to excavation.

Log of Test Pit 18-TP-528

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 6	(Loose), damp, dark brown, silty, gravelly SAND (FILL?).
S-2	3 to 6	5		
S-3	8 to 10	5	6 to 10	(Medium dense), damp, light brown, sandy GRAVEL.

Bottom of 18-TP-528 at 10 feet, completed 5/13/92.

Log of Test Pit 18-TP-529

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 3	(Loose), damp, dark brown, silty, gravelly SAND.
S-2	3 to 6	5	3 to 10	(Medium dense), damp, brown, sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-529 at 10 feet, completed 5/13/92.

Log of Test Pit 18-TP-530

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 2.5	(Loose), damp, black, silty, gravelly SAND with large roots.
S-2	3 to 6	5	2.5 to 10	(Medium dense), damp, light brown, sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-530 at 10 feet, completed 5/13/92.

Log of Test Pit 18-TP-531

Sample Number	Sample Depth in Feet	Stratum Depth in Feet	Soil Description
S-1	0 to 1	0 to 2.5	(Loose), damp, brown, silty, gravelly SAND with organics.
S-2	3 to 6	2.5 to 10	(Dense), damp, brown, sandy GRAVEL.
S-3	8 to 10		

Bottom of 18-TP-531 at 10 feet, completed 5/15/92.

Log of Test Pit 18-TP-532

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	4.5	0 to 6	(Loose), damp, dark brown, silty, gravelly SAND (FILL)
S-2	3 to 6	4.5		
S-3	8 to 10	4.5	6 to 10	(Medium dense), damp, light brown, sandy GRAVEL (NATIVE).

Bottom of 18-TP-532 at 10 feet, completed 4/29/92.

Note:

Test pit excavated between 3 stem walls at Hall Packing House No. 4 foundation.

### Log of Test Pit 18-TP-533

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	4.5	0 to 2	(Loose), damp, brown, slightly gravelly, silty SAND.
S-2	2 to 3	5.0	2 to 3	(Dense), damp, gray, slightly gravelly, sandy SILT.
S-3	3 to 6	5	3 to 7.5	(Dense), damp, brown, silty, gravelly SAND with a thin layer of burnt wood (charcoal) at depth of 5 feet.
S-4	8 to 10	5	7.5 to 10	(Medium dense), damp, light brown, sandy GRAVEL.

Bottom of 18-TP-533 at 10 feet, completed 4/28/92.

### Log of Test Pit 18-TP-534

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	4.5	0 to 3	(Loose), damp, dark and light brown, silty, gravelly SAND mixed with debris (FILL) (see note below).
S-2	3 to 6	4.5	3 to 10	(Loose), damp, light brown, sandy GRAVEL with gravel bedding (appears NATIVE).
S-3	8 to 10	4.5		

Bottom of 18-TP-534 at 10 feet, completed 4/30/92.

#### Note:

Debris observed from depth of 0 to 3 feet: wood debris, bricks, copper lines and potential asbestos-containing material (ACM). TLH Abatement Inc. removed potential ACM from excavation.

Log of Test Pit 18-TP-535

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1.5	(Loose), damp, light brown, sandy GRAVEL with bricks, metal fragments, and potential asbestos-containing material.
S-2	3 to 6	5	1.5 to 10	(Medium dense), damp, brown, sandy GRAVEL.
S-3	8 to 10	5		

Bottom of 18-TP-535 at 10 feet, completed 4/27/92.

Note:

TLW Abatement Inc. removed potential asbestos-containing material from excavation.

Log of Test Pit 18-TP-536

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 3	(Medium dense), damp, reddish brown, slightly gravelly, silty SAND with scattered charcoal and bricks.
S-2	3 to 6	5	3 to 10	(Dense), moist, light brown, slightly sandy GRAVEL.
S-3	8 to 10	5		

Bottom of 18-TP-536 at 10 feet, completed 4/27/92.

**Log of Test Pit 18-TP-537**

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 2	(Medium dense), damp, dark brown, silty, gravelly SAND.
S-2	3 to 6	5.5	2 to 8.5	(Loose), damp, light brown-gray, sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	6	8.5 to 10	(Loose), damp, light brown-gray, gravelly SAND.

Bottom of 18-TP-537 at 10 feet, completed 4/24/92.

**Log of Test Pit 18-TP-538**

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5.5	0 to 0.5	(Medium dense), damp, brown, silty SAND with scattered bricks.
S-2	3 to 6	5.5	0.5 to 10	(Loose), damp, light brown-gray, slightly sandy GRAVEL and interbedded gravel layers.
S-3	8 to 10	5.5		

Bottom of 18-TP-538 at 10 feet, completed 4/24/92.

**Note:**

Brick pier pad observed at depth of 0 to 2.5 feet.

Log of Test Pit 18-TP-539

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
3-1	0 to 1	5	0 to 1	(Medium dense), damp, brown, silty, gravelly SAND with scattered bricks.
			1 to 3	(Loose), damp, light brown-gray, sandy GRAVEL.
3-2	3 to 6	5	3 to 6	(Medium dense), damp, dark brown, silty, gravelly SAND.
3-3	8 to 10	5	6 to 10	(Loose), damp, light brown-gray, sandy GRAVEL.

Bottom of 18-TP-539 at 10 feet, completed 4/24/92.

Log of Test Pit 18-TP-540

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
3-1	0 to 1	5	0 to 1	(Medium dense), damp, brown, silty, gravelly SAND with scattered bricks.
3-2	3 to 6	5	1 to 10	(Loose), damp, light brown-gray, slightly sandy GRAVEL with interbedded gravel layers.
3-3	8 to 10	5		

Bottom of 18-TP-540 at 10 feet, completed 4/24/92.

Note:

Brick pier pad observed from depth of 0 to 2.5 feet.

# Log of Test Pit 18-TP-541

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	6	0 to 1.2	(Loose), damp, medium brown, silty, gravelly SAND with scattered bricks, organics, burnt wood, and metal debris.
S-2	3 to 6	5	1.2 to 10	(Medium dense), damp, light brown-gray, sandy GRAVEL with a discontinuous gravel lens from 6.5 to 9.5 feet.
S-3	8 to 10	5		

Bottom of 18-TP-541 at 10 feet, completed 4/24/92.

# Log of Test Pit 18-TP-542

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	4.5	0 to 2	(Loose), damp, dark brown, silty, sandy GRAVEL with scattered nails, charcoal, and other metal debris.
S-2	3 to 6	4.5	2 to 10	(Loose), damp, light brown, slightly sandy GRAVEL with gravel layers.
S-3	8 to 10	4.5		

Bottom of 18-TP-542 at 10 feet, completed 4/28/92.

Note:

Charcoal and metal debris observed on surface.



Log of Test Pit 18-TP-543

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1.5	(Loose), damp, medium brown, silty, gravelly SAND with scattered charcoal (to 0.7 foot) and nails.
S-2	3 to 6	5	1.5 to 10	(Loose), damp, light brown-gray, slightly sandy GRAVEL with interbedded gravel layers dipping west.
S-3	8 to 10	5		

Bottom of 18-TP-543 at 10 feet, completed 4/28/92.

Log of Test Pit 18-TP-544

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 1	(Loose), damp, brown, slightly gravelly SAND.
S-2	3 to 6	5	1 to 6	(Medium dense), damp, medium brown, silty, sandy GRAVEL with debris (see notes below).
S-3	8 to 10	5	6 to 10	(Medium dense), damp, light brown, sandy GRAVEL.

Bottom of 18-TP-544 at 10 feet, completed 5/15/92.

Note:

Debris observed from depth of 1 to 4 feet: 1-inch-diameter steel pipe, steel ducts approximately 3 feet in diameter (crushed), wood fragments, and crystals of copper salts.

### Log of Test Pit 18-TP-545

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	4.5	0 to 3	Three inches of forest duff over (loose), damp, medium brown, slightly gravelly, silty SAND.
S-2	3 to 6	4.5	3 to 6	(Loose), damp, dark brown, silty, sandy GRAVEL (see notes below).
S-3	8 to 10	4.5	6 to 10	(Medium dense), damp, light brown, slightly sandy GRAVEL.

Bottom of 18-TP-545 at 10 feet, completed 4/29/92.

#### Notes:

- 1) Found wire wrapped around treated wood, which appears to be part of a former pipeline, from depth of 2.5 to 5 feet.
- 2) Test pit excavated between two concrete "stem walls". Observed a small void beneath east stem wall.

### Log of Test Pit 18-TP-546

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 2	(Medium dense), damp, medium brown, silty, gravelly SAND with a railroad tie and 1-inch-diameter metal pipe line near surface.
S-2	3 to 6	5	2 to 10	(Medium dense), damp, light brown, slightly sandy GRAVEL with gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-546 at 10 feet, completed 4/28/92.

Log of Test Pit 18-TP-547

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 0.5	(Loose), moist, dark brown, slightly silty, sandy GRAVEL (see note below).
S-2	3 to 6	5	0.5 to 10	(Medium dense), moist, tan-brown, sandy GRAVEL increasing in moisture with depth.
S-3	8 to 10	5		

Bottom of 18-TP-547 at 10 feet, completed 5/1/92.

Note:

Sample S-1 is a 5-point composite from depth of 0 to 1 foot.

Log of Test Pit 18-TP-548

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	5	0 to 2.5	(Loose), moist, dark brown, gravelly SAND with minor organics.
S-2	3 to 6	5	2.5 to 4	(Medium dense), moist, reddish brown, gravelly SAND.
S-3	8 to 10	5	4 to 10	(Medium dense), moist, brown, gravelly SAND with interbedded gravel layers.

Bottom of 18-TP-548 at 10 feet, completed 5/14/92.

Log of Test Pit 18-TP-549

Sample Number	Sample Depth in Feet	pH	Stratum Depth in Feet	Soil Description
S-1	0 to 1	4.5	0 to 1	(Medium dense), moist, dark brown, slightly silty, sandy GRAVEL.
S-2	3 to 6	5	1 to 10	(Medium dense), moist, tan-brown, sandy GRAVEL with interbedded gravel layers.
S-3	8 to 10	5		

Bottom of 18-TP-549 at 10 feet, completed 5/1/92.

Note:

Sample S-1 is a 5-point composite from 0 to 1 foot within Dynamite Mix House No. 1 foundation.